#1

CREATE TABLE `employees` (

`id` int unsigned NOT NULL AUTO\_INCREMENT,

`first\_name` varchar(45) NOT NULL,

`last\_name` varchar(45) NOT NULL

);

CREATE TABLE `categories` (

`category\_id` int NOT NULL,

`name` varchar(45) NOT NULL

);

CREATE TABLE `products` (

`id` int NOT NULL,

`name` varchar(45) NOT NULL

);

#2

INSERT INTO `employees` (`first\_name`, `last\_name`) VALUES

(`Ivan`, `Ivanov`),

(`Galya`, `Ivanov`),

(`Pepa`, `Ivanov`);

#3

ALTER TABLE `employees`

ADD COLUMN `middle\_name` VARCHAR(45) NOT NULL AFTER `first\_name`;

#4

ALTER TABLE `products`

ADD INDEX `fk\_products\_categories\_idx` (`category\_id` ASC) VISIBLE;

ALTER TABLE `products`

ADD CONSTRAINT `fk\_products\_categories`

FOREIGN KEY (`category\_id`)

REFERENCES `categories` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION;

#5

ALTER TABLE `employees`

CHANGE COLUMN `middle\_name` `middle\_name` VARCHAR(100) NOT NULL ;